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CRITICAL NOTES ON COSTA RICAN ORCHIDS

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IN THE PREPARATION of an enumeration of the orchids of Costa Rica, two new varieties were noted and it was found necessary to make a number of new combinations and new names. The present paper describes the novelties and makes the necessary nomenclatorial changes.

Gomphichis costaricensis (*Schltr.*) Ames, Hubbard & Schweinfurth, *comb. nov.*

Stenoptera costaricensis Schlechter in Beihefte Bot. Centralbl. 36, Abt. 2 (1918) 375.

Since we consider *Stenoptera costaricensis* to be a *Gomphichis* and not a *Stenoptera*, the transfer to that genus necessitates a new combination.

Goodyera erosa (*A. & S.*) Ames, Hubbard & Schweinfurth, *comb. nov.*

Epipactis erosa Ames & Schweinfurth in Sched. Orch. 10 (1930) 9.

This species has not been transferred to *Goodyera* heretofore and therefore necessitates a new combination.

Lepanthes Lindleyana Oerst. & Reichb.f. var. **angustifolia** Ames, Hubbard & Schweinfurth, *var. nov.*

A typo foliis linearibus vel peranguste lanceolatis differt.

Leaves up to about 4.6 cm. long (3.9 cm. long in the type, 4.6 cm. long in *Stork 1699*), rarely up to 4 mm. wide, commonly appearing fleshy with revolute margins. Otherwise as in the type.

COSTA RICA, Province of San José. Oak forest near Quebradillas, about 7 km. north of Santa María de Dota. At about 1,800 meters altitude. December 24, 1925. *Paul C. Standley 43071* (TYPE in Herb. Ames No. 32871); Same data, *Paul C. Standley 43083*; Santa María. At 5,600 feet altitude. May 4, 1928. *H.E. Stork 1699*.

Lepanthes Lindleyana Oerst. & Reichb.f. var. **major** Ames, *Hubbard & Schweinfurth, var. nov.*

Lepanthes fimbriata Ames in Sched. Orch. 3 (January 1923) 11.

Lepanthes pubilabia Schlechter in Fedde Repert. Beihefte 19 (November 1923) 282.

A typo plus minusve major, praesertim foliis ovatis vel elliptico-ovatis differt.

Plant up to 10 cm. tall. Leaves ovate, round-ovate or elliptic-ovate, up to 4.1 cm. long and 2.2 cm. wide (2.2 cm. wide in *Stork 2063*). Sepals ovate, up to 4 mm. long (4 mm. long in the type of *L. pubilabia*), smooth on the margins and veins. Lamina of the lateral sepals scarcely broader than the dorsal sepal. Mid-lobe of lip more conspicuous than in the type.

COSTA RICA, Carpintera. At 5,000 feet altitude. Flowers brick-red. October 1923. *C.H. Lankester 543* (TYPE in Herb. Ames No. 27757); At 5,000 feet altitude. Petals orange, lip red. May 20, 1928. *H.E. Stork 2063* (Collector Karl Danielson); Ochomogo. At 1,570 meters altitude. Flowers coral-red, sepals dark. September 4, 1925. *A. Alfaro 165*; Alto de Ochomogo. At 1,550 meters altitude. December 1896. *A. Tonduz* (Herb. Inst. physico-geogr. nat. costaric. 10387) (Type of *L. fimbriata*); Vicinity of San Ramon. 1921. *G. Acosta s.n.* (Type of *L. pubilabia*).

Pleurothallis Bradeorum (*Schltr.*) *Ames, Hubbard & Schweinfurth, comb. nov.*

Barbosella Bradeorum Schlechter in Fedde Repert. Beihefte 19 (1923) 111.

We consider the genus *Barbosella* Schltr. to be congeneric with *Pleurothallis* R. Br. The combination for this species under *Pleurothallis* has not been made previously.

Pleurothallis cruciformis *Ames, Hubbard & Schweinfurth, nom. nov.*

Restrepia Reichenbachiana Endres apud Reichenbach filius in Gard. Chron. n.s. 4 (1875) 356.

Barbosella Reichenbachiana Schlechter in Fedde Repert. Beihefte 19 (1923) 26.

We consider that this species belongs in *Pleurothallis*. In transferring it to that genus a new name is rendered necessary owing to the already existing *P. Reichenbachiana* Schltr. (1921). The new name refers to the cross-like appearance of the flower.

Pleurothallis geminiflora *Ames, Hubbard & Schweinfurth, nom. nov.*

Pleurothallis biflora Schlechter in Beihefte Bot. Centralbl. 36, Abt. 2 (1918) 395, non Focke (1849).

Owing to the prior use of the combination *Pleurothallis biflora* by Focke in 1849 its use by Schlechter in 1918 is invalid, making a new name necessary.

Pleurothallis integrilabia *Ames, Hubbard & Schweinfurth, nom. nov.*

Pleurothallis dryadum Schlechter in Fedde Repert. Beihefte 19 (1923) 186, non Schltr. (1922).

Owing to the prior use of the combination *Pleurothallis dryadum* by Schlechter in 1922 its use by Schlechter in 1923 is invalid, making a new name necessary.

Pleurothallis prorepens (*Reichb.f.*) *Ames, Hub-*

bard & *Schweinfurth*, *comb. nov.*

Restrepia prorepens Reichenbach filius in Gard. Chron. n.s. 7 (1877) 810.

Barbosella prorepens Schlechter in Fedde Repert. 15 (1918) 263.

This species has not heretofore been placed in *Pleurothallis* and its transfer to that genus makes a new combination necessary.

Malaxis Parthonii *Morr.* var. **denticulata** (*Reichb.f.*) *Ames, Hubbard & Schweinfurth, comb. nov.*

Microstylis Parthoni Reichb.f. var. *denticulata* Reichenbach filius, Beitr. Orch. Centr.-Am. (1866) 100.

Microstylis Wercklei Schlechter in Beihefte Bot. Centralbl. 36, Abt. 2 (1918) 382.

Malaxis Wercklei Ames in Proc. Biol. Soc. Wash. 35 (1922) 85.

The transfer of this variety to *Malaxis* has not been made previously.

Hexisea Amparoana (*Schltr.*) *Ames, Hubbard & Schweinfurth, comb. nov.*

Costaricaea Amparoana Schlechter in Fedde Repert. Beihefte 19 (1923) 31.

We consider the genus *Costaricaea* Schltr. to be congeneric with *Hexisea* Lindl. The combination for this species under *Hexisea* has not been made previously.

Scaphyglottis corallorrhiza (*Ames*) *Ames, Hubbard & Schweinfurth, comb. nov.*

Pachystele corallorrhiza Ames in Sched. Orch. 9 (1925) 45.

We consider the genus *Pachystele* Schltr. to be congeneric with *Scaphyglottis* Poepp. & Endl. The combination for this species under *Scaphyglottis* has not been

made previously.

Bletia Lankesteri (*A. & S.*) *Ames, Hubbard & Schweinfurth, comb. nov.*

Limodorum Lankesteri Ames & Schweinfurth in Sched. Orch. 10 (1930) 78.

As this species has not heretofore been recorded under *Bletia* a new combination is necessitated. The retention of *Limodorum* as the generic name of the well-known European species, *L. abortivum* Sw., restores *Bletia* as a valid generic name.

Kefersteinia lactea *Reichenbach filius* apud B. D. Jackson in Index Kewensis 2 (1895) 4.

Zygopetalum lacteum Reichenbach filius in Gard. Chron. (1872) 1290.

The authority usually cited for the combination *Kefersteinia lactea* is Reichb.f. in Gard. Chron. (1872) 1290. The actual combination published there is ZYGOPETALUM (KEFERSTEINIA) LACTEUM, *n. sp.* The earliest appearance of the combination *Kefersteinia lactea* that we have found is in Index Kewensis, as cited above.

Maxillaria angustissima *Ames, Hubbard & Schweinfurth, nom. nov.*

Maxillaria acutifolia Schlechter in Fedde Repert. Beihefte 19 (1923) 229, non Lindley (1839).

Owing to the prior use of the combination *Maxillaria acutifolia* by Lindley in 1839 its use by Schlechter in 1923 is invalid, making a new name necessary.

Maxillaria flava *Ames, Hubbard & Schweinfurth, nom. nov.*

Ornithidium ramonense Schlechter in Fedde Repert. Beihefte 19 (1923) 243, non *Maxillaria ramonensis* Schltr.

We consider that this species is referable to *Maxillaria* rather than to *Ornithidium*. As there is already a *Maxillaria ramonensis* Schltr., a new name is rendered necessary in transferring the species.